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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/836,704	04/16/2001	Sam L. Woo	9584-027-999	6599
20583	7590 06/26/2003			
PENNIE AND EDMONDS 1155 AVENUE OF THE AMERICAS		EXAMINER		
NEW YORK			RILEY, JEZIA	
			ART UNIT	PAPER NUMBER
	,		1637 DATE MAILED: 06/26/2003	17

Please find below and/or attached an Office communication concerning this application or proceeding.

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<u></u>	The 8444	1000	J	ezia Riley	1637
Period 1	<i> гпе ман</i> or Reply	LING DATE of this com	munication appear	rs on the cover shee	1637 t with the correspondence address
- Extended - If th - If No - Fail - Any	ensions of time n r SIX (6) MONTH e period for reply O period for reply ure to reply within reply received by	I the set or avianded meded to	isions of 37 CFR 1.136(a) communication. irty (30) days, a reply with m statutory period will agreeply will, by statute, causes.). In no event, however, may nin the statutory minimum of oply and will expire SIX (6) N	B MONTH(S) FROM y a reply be timely filed thirty (30) days will be considered timely. MONTHS from the mailing date of this communication. B ABANDONED (35 U.S.C. § 133). In if timely filed, may reduce any
1)🛛	Responsi	ve to communication(s	s) filed on 19 Mav	2003	
2a)⊠		n is FINAL .		ction is non-final.	
3) <u>□</u> Dispositi	Since this closed in a on of Clain	application is in condi accordance with the pi ns	ition for allowance	avant for farmal	natters, prosecution as to the merits is C.D. 11, 453 O.G. 213.
4)⊠	Claim(s) 1	- <u>28 <i>and 53-60</i></u> is/are p	ending in the app	lication.	•
	4a) Of the a	bove claim(s) i	s/are withdrawn fr	om consideration	
5)🖂	Claim(s) 53	and 55-60 is/are allov	wed.	and device the second second	
		<u>28 and 54</u> is/are reject			
		is/are objected to		•	
8)∏ Applicatio	Claim(s) on Papers	are subject to res	triction and/or elec	ction requirement.	
9)□ T	he specifica	ation is objected to by	the Examiner.		
10)□ T	he drawing	(s) filed on is/ar	e: a)∏ accepted o	r h) objected to by	the Evenings
	Applicant m	ay not request that any o	bjection to the draw	vina(s) be held in abo	/ance. See 37 CFR 1.85(a).
11) 🔲 T	he proposed	d drawing correction fi	led on is: a) approved b)	disapproved by the Examiner.
	ii approved,	corrected drawings are	required in reply to t	this Office action	disapproved by the Examiner.
12) 🔲 T	he oath or d	eclaration is objected	to by the Examine	er.	
iority ur	der 35 U.S	.C. §§ 119 and 120			
13) 🗌 🔏	\cknowledgi	ment is made of a clair	m for foreign prior	ity under 35 U.S.C.	8 110(a) (d) a- (6)
a) <u></u>] All b) □ :	Some * c)☐ None of:	0 p	ny andor 00 0.0.0.	9 115(a)-(d) or (f).
		ed copies of the priority		heen received	
2	. Certifie	ed copies of the priority	v documents have	been received in A	pplication No
* Se	copies ر_ا. api	of the certified copies Dication from the Inter ed detailed Office action	of the priority do	cuments have been	received in this National Stage
4)□ Ac	knowledgme	ent is made of a claim	for domestic priori	ity under 35 H S C	received. § 119(e) (to a provisional application).
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/—	ugine	ent is made of a claim	for domestic prior	ity under 35 U.S.C.	§§ 120 and/or 121
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Notice o	f Draftsperson'	Cited (PTO-892) s Patent Drawing Review (F Statement(s) (PTO-1449) P	PTO-948)	4) Interview S	Summary (PTO-413) Paper No(s) formal Patent Application (PTO-152)

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DETAILED ACTION

Response to Remarks

1. Applicants' arguments and amendments, filed on 5/19/03, have been approved and entered. They have been fully considered but they are not deemed to be persuasive. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either newly applied or reiterated. They constitute the complete set presently being applied to the instant application.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-28 and 54 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1 and 54 are vague and indefinite because in formula III if R3 is the of formula as shown in line 30 and X is oxygen then the bond linking R3 in formula III will be and O-O bond which is unstable.

The amendment to the claims do not overcome this rejection because for example when X is O and R3 is the formula in line 30, an O-O type bond will still be formed.

The formation of an O-O type bond is viewed in organic chemistry as being a very weak bond. They undergo homolysis readily when heated. The resulted products are two radicals called alkoxy radicals. Almost all radicals are short-

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lived, highly reactive species. Because radicals are highly reactive they are capable of randomly damaging all components of a reaction mixture.

Thus if one uses said mobility modified sequence specific nucleobase polymer for hybridization assays which requires to be carried at temperature above room temperatures, one will not find useful to apply a mobility modified sequence specific nucleobase polymer comprising a peroxide bond (O-O) for such assays.

Therefore the scope of the invention sought to be patented cannot be determined from the language of the claims with a reasonable degree of certainty, a rejection of the claims under 35 U.S.C. 112, second paragraph was appropriate. The specification shall conclude with one or more claims particularly pointing out and **distinctly** claiming the subject matter which the applicant regards as his invention.

- 3. Claims 53 and 55-60 are allowed.
- 4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 C.F.R. § 1.136(a).

A SHORTENED STATUTORY PERIOD FOR RESPONSE TO THIS FINAL ACTION IS SET TO EXPIRE THREE MONTHS FROM THE DATE OF THIS ACTION. IN THE EVENT A FIRST RESPONSE IS FILED WITHIN TWO MONTHS OF THE MAILING DATE OF THIS FINAL ACTION AND THE ADVISORY ACTION IS NOT MAILED UNTIL AFTER THE END OF THE THREE-MONTH SHORTENED STATUTORY PERIOD, THEN THE SHORTENED STATUTORY PERIOD WILL EXPIRE ON THE DATE THE ADVISORY ACTION IS MAILED, AND ANY EXTENSION FEE PURSUANT TO 37 C.F.R. § 1.136(a) WILL BE CALCULATED FROM THE MAILING DATE OF THE ADVISORY ACTION. IN NO EVENT WILL THE STATUTORY PERIOD FOR RESPONSE EXPIRE LATER THAN SIX MONTHS FROM THE DATE OF THIS FINAL ACTION.

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jezia Riley whose telephone number is 703-305-6855. The examiner can normally be reached on 9:30AM - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gary Benzion can be reached on 703-308-1119. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3014 for regular communications and 703-308-4242 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

/ JEZIA RILEY PRIMARY EXAMINER

June 25, 2003